

PRC2150

TACTICAL VHF



VHF Tactical Manpack Radio



Datron's PRC2150 is one of the Spectre V® series of transceivers, providing tactical VHF communications capability over the 30-88 MHz band. The PRC2150 is a high performance, competitively priced, tactical manpack radio that features GPS capability embedded in the transceiver. It is designed to satisfy the demanding needs of today's sophisticated tactical communications arena and is available as either a 10W manpack or a 75W mobile or fixed station system. It meets MIL-STD-810 for reliable operation in harsh environments in any configuration.

The PRC2150 addresses today's most pressing battlefield issues by incorporating a full range of embedded features. Excellent dynamic range lets co-located units transmit and receive simultaneously on the same vehicle without diminished performance. Menu screens in the language of the user offers a new level of operating comfort for the operator.

Accurate position and time-of-day capability is afforded by the embedded GPS receiver. The PRC2150 is compatible in clear voice mode with all Datron Tactical VHF radios.

The PRC2150 has excellent distance coverage, due to its sensitive and high dynamic range receiver, its finely-tuned internal antenna matching network, and its many variable output power settings (from 500mW to 75W). High power settings can be used when maximum range is desired, while lower power settings can be used to save battery life or when low probability of intercept is a mission requirement.

A comprehensive BITE lets users or maintenance personnel completely monitor the performance of the radio. Status messages are shown on the PRC2150's large graphic display. The latter is scratch and impact resistant for reliable use in tactical situations.

Features

- 30 to 88 MHz
- 100 programmable memory channels
- Rugged (MIL-STD-810), immersible
- Up to 10W (Manpack) & 75W (mobile or base station)
- Internal aP1 antenna matching unit
- Excellent co-site performance
- BITE to module level



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Registered Quality System
Datron World Communications, Inc.

Subject to export regulations

Specifications subject to change without
notice - rev 191008

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GENERAL

- FREQUENCY RANGE 30 to 87.975 MHz;
- CHANNEL SPACING 12.5 or 25 kHz
- PRESET CHANNELS 100 programmable memory channels - all mode information individually programmable per channel
- SCANNING Any or all channels in a group (up to 100)
- CHANNEL PROGRAMMING From front panel or remotely via computer
- MODES Voice & data: FF FM, simplex or half-duplex
Data: 9600 & 19,200 bps asynchronous input, 16kbps output
- INPUT POWER REQUIREMENTS 11 - 15 Vdc;
- BATTERY PACK BB-NM10 NiMH (up to 11.1AH)
- LOW BATTERY INDICATOR LCD battery icon
- ANTENNA PORT BNC for 50 ohm broadband antennas or for connection to external amplifier; whip antenna port
- DISPLAY Backlit, multi-function custom LCD

MECHANICAL, ENVIRONMENTAL

- SIZE 3.5" x 8.5" x 9.5" (216mm x 89mm x 241 mm); (H x W x D), including battery pack.
- WEIGHT 9.46 lbs (4.2 kg), w/o battery pack; BB-NM10 pack is 4 lbs. (1.8kg)
- PACKAGE OD, sealed, including battery pack
- TEMPERATURE -20 to +60 degrees C, operating
- SHOCK, VIBRATION, HUMIDITY, FUNGUS, ALTITUDE Per MIL-STD-810

TRANSMITTER

- RF POWER OUTPUT 500mW to 10W, (3 adjustable settings), manpack; 500mW to 75W (4 settings), mobile or base
- DUTY CYCLE Continuous service, all modes
- HARMONICS 2nd: -46 dBc; others: -50 dBc

RECEIVER

- SENSITIVITY -113dBm @ 12 dB SINAD
- SQUELCH Tone or carrier; compatible with AN/PRC77, PRC1077, PRC1080.
- AUDIO 500mW into 16 ohms; 50mW @ 150 ohms; 0 dBm into 600 ohms.

ANTENNA TUNING MATCHING

- ANTENNAS Whip (AT271A/U) and tape (AT892M); integrated antenna matching

INTERNAL FEATURES

- GPS Internal GPS receiver with external TNC antenna connector

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